

OCT 21 1994



UMASS/AMHERST



312066016709206

GOVERNMENT DOCUMENTS  
COLLECTION

JAN 24 1995

University of Massachusetts  
Depository Copy

EMPLOYMENT TRENDS  
LOWELL PMSA  
1990 TO 1993



**EMPLOYMENT TRENDS**

**LOWELL PMSA**

**1990 TO 1993**

**MASSACHUSETTS DEPARTMENT OF EMPLOYMENT AND TRAINING  
FIELD SERVICE RESEARCH  
CHARLES F. HURLEY BUILDING  
GOVERNMENT CENTER  
BOSTON, MASSACHUSETTS 02114**

**SEPTEMBER 1994**



Digitized by the Internet Archive  
in 2014

[https://archive.org/details/employmenttrend9909mass\\_0](https://archive.org/details/employmenttrend9909mass_0)

## INTRODUCTION

This is one of a set of booklets prepared by the Massachusetts Department of Employment and Training to provide employment statistics for the Commonwealth and the major labor market areas. These areas, known as metropolitan statistical areas (MSAs) or primary metropolitan statistical areas (PMSAs), were defined by the federal government based on commuting patterns identified in the 1990 census. They became effective in 1993 in Massachusetts, but data have been revised back to 1989 for the nonagricultural wage and salary employment series, and back to 1990 for the local area unemployment statistics. All of the sub-state data contained in these packets is for these labor market areas.

Two different types of data are provided for the state and each of the local areas. The nonagricultural wage and salary employment series is based on a survey of employers and is an estimate of jobs by place of work. The labor force and unemployment statistics are based on a household survey and are estimates of employed and unemployed persons by place of residence. These two data sources are not comparable, but each has important uses. The nonagricultural employment series provides estimates of employment by major industry division and selected industries for the state and the major labor areas. The local area unemployment statistics program is the source of information on local unemployment rates.

The major labor areas in Massachusetts are:

- Barnstable-Yarmouth MSA
- Boston, MA-NH PMSA
- Brockton PMSA
- Fitchburg-Leominster PMSA
- Lawrence, MA-NH PMSA
- Lowell, MA-NH PMSA
- New Bedford PMSA
- Pittsfield MSA
- Springfield MSA
- Worcester, MA-CT PMSA

A booklet of "Employment Trends" is being prepared for the state and each labor market area identified above. To obtain a copy of any of these booklets call (617) 626-5744 or write to:

**MASSACHUSETTS DEPARTMENT OF EMPLOYMENT AND TRAINING  
FIELD SERVICE RESEARCH  
CHARLES F. HURLEY BUILDING  
19 STANIFORD STREET  
BOSTON, MASSACHUSETTS 02114**



This booklet is organized as follows:

**I. Labor Force and Unemployment Data/Labor Market Area, Massachusetts and United States**

This section contains annual average labor force and unemployment statistics for the labor market area (1990-1993) and the state (1980-1993); it also contains annual average unemployment rates for the nation.

**II. Nonagricultural Wage and Salary Employment/Annual Averages/Labor Market Area**

Included here are annual average nonagricultural employment levels for major industries in the labor market area for the years 1989 to 1993. This section also contains employment percent distributions for major industry divisions.

**III. Nonagricultural Wage and Salary Employment/Major Industry Divisions/Massachusetts and United States**

This part contains annual average nonagricultural employment levels for major industry divisions in the state and nation. It also includes statewide percent distributions similar to those provided for the local areas in Section II. This state and national data is given for comparison purposes; more detailed data for Massachusetts is contained in a separate booklet. This section also includes a table providing total nonagricultural and manufacturing employment for Massachusetts and each of the major labor market areas for the most recent five years.

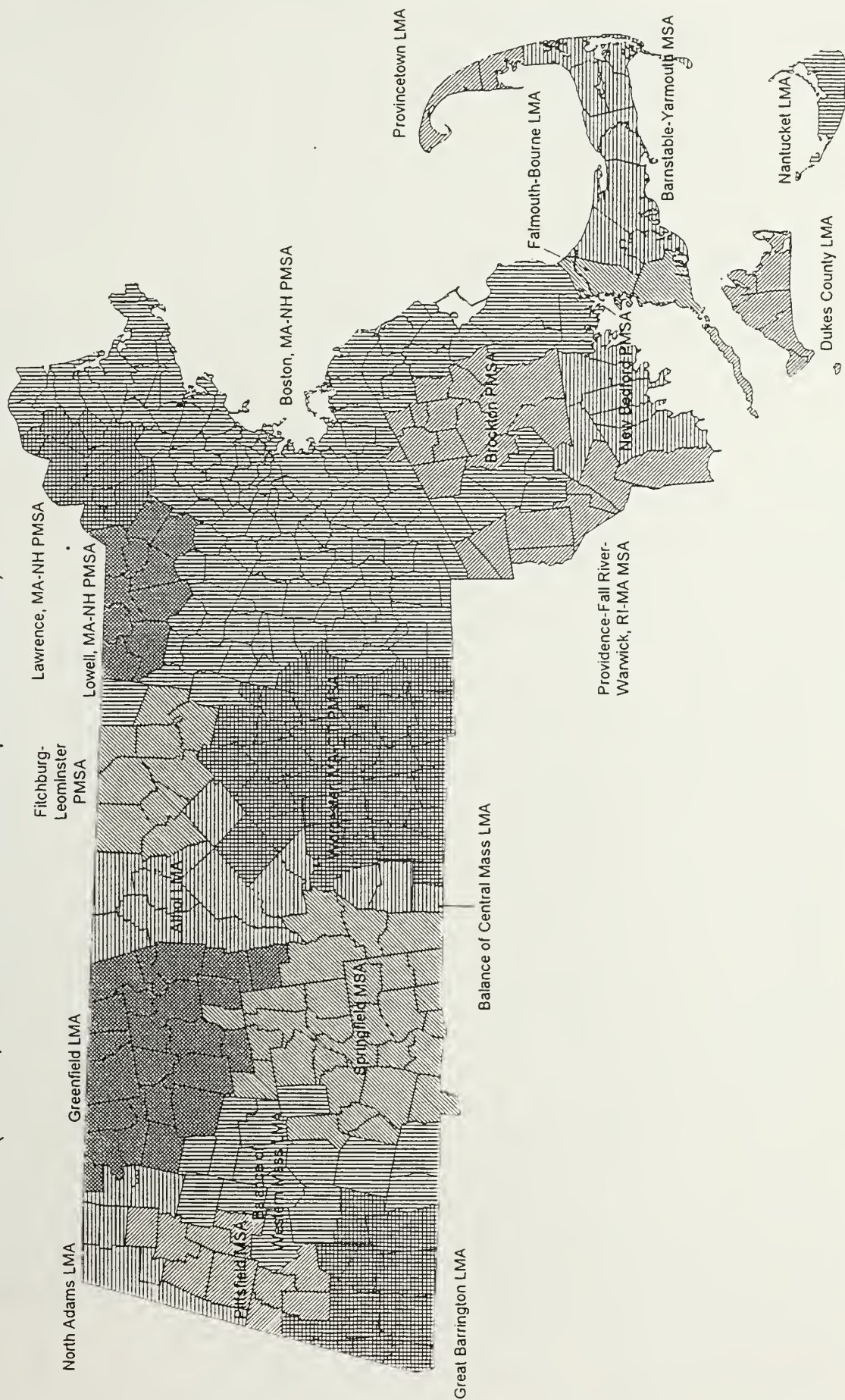
**IV. Detailed Nonagricultural Wage and Salary Employment Tables/Labor Market Area**

This section contains detailed monthly and annual average nonagricultural employment levels for major industry divisions and selected industries in the labor market area for the most recent five years.





# 1993 Labor Market Areas in Massachusetts (MSA's, PMSA's and non-metropolitan LMA's)





The Lowell, MA-NH PMSA consists of the following communities:

Massachusetts

Billerica  
Chelmsford  
Dracut  
Dunstable  
Groton  
Lowell  
Pepperell  
Tewksbury  
Tyngsborough  
Westford

New Hampshire

Pelham



**LABOR FORCE AND UNEMPLOYMENT DATA**

**THE LOWELL PMSA,**

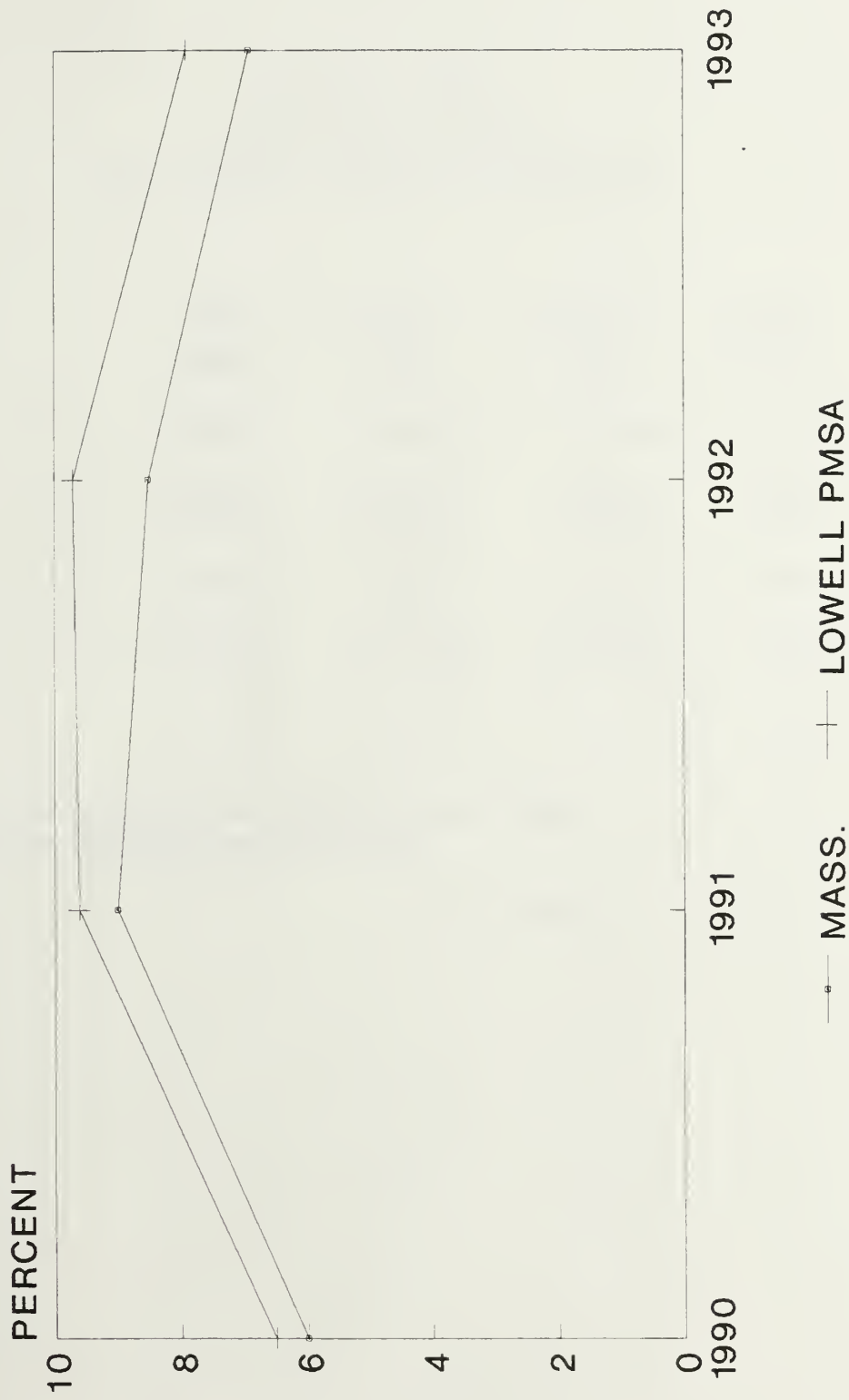
**MASSACHUSETTS**

**AND**

**THE UNITED STATES**



# ANNUAL UNEMPLOYMENT RATE MASSACHUSETTS and LOWELL PMSA







**LOWELL PMSA  
LABOR FORCE DATA  
1990 TO 1993 ANNUAL AVERAGES**

	<u>Labor Force</u>	<u>Employ- ment</u>	<u>Unemploy- ment</u>	<u>Unemp Rate</u>
1990	158,782	148,464	10,318	6.5%
1991	156,683	141,587	15,096	9.6%
1992	156,016	140,831	15,185	9.7%
1993	153,920	141,788	12,132	7.9%

SOURCE: Massachusetts Department of Employment and Training,  
Local Area Unemployment Statistics (LAUS).

Revised 8/94



**LOWELL PMSA  
LABOR FORCE DATA  
1990-1993 BY MONTH**

	<u>Labor Force</u>	<u>Employ- ment</u>	<u>Unemploy- ment</u>	<u>Unemp Rate</u>
1990				
January	157,994	149,942	8,052	5.1%
February	159,605	149,566	10,039	6.3%
March	158,496	148,211	10,285	6.5%
April	158,341	148,601	9,740	6.2%
May	160,111	150,767	9,344	5.8%
June	160,765	149,908	10,857	6.8%
July	160,263	148,557	11,706	7.3%
August	161,321	149,560	11,761	7.3%
September	159,796	149,127	10,669	6.7%
October	156,616	146,593	10,023	6.4%
November	155,847	145,379	10,468	6.7%
December	156,232	145,357	10,875	7.0%
Annual Average	158,782	148,464	10,318	6.5%
1991				
January	156,922	143,122	13,800	8.8%
February	157,660	142,442	15,218	9.7%
March	158,315	142,302	16,013	10.1%
April	156,875	143,293	13,582	8.7%
May	157,808	142,046	15,762	10.0%
June	158,790	142,234	16,556	10.4%
July	157,183	140,531	16,652	10.6%
August	154,911	139,323	15,588	10.1%
September	155,015	139,127	15,888	10.2%
October	155,799	141,114	14,685	9.4%
November	155,541	141,621	13,920	8.9%
December	155,371	141,888	13,483	8.7%
Annual Average	156,683	141,587	15,096	9.6%



**LOWELL PMSA  
LABOR FORCE DATA  
1990-1993 BY MONTH**

	<u>Labor Force</u>	<u>Employ- ment</u>	<u>Unemploy- ment</u>	<u>Unemp Rate</u>
1992				
January	156,599	143,065	13,534	8.6%
February	157,346	143,715	13,631	8.7%
March	158,237	141,574	16,663	10.5%
April	154,641	139,677	14,964	9.7%
May	156,894	141,956	14,938	9.5%
June	159,373	142,334	17,039	10.7%
July	158,686	142,278	16,408	10.3%
August	156,633	141,097	15,536	9.9%
September	152,653	136,792	15,861	10.4%
October	152,839	138,634	14,205	9.3%
November	153,797	138,604	15,193	9.9%
December	154,502	140,251	14,251	9.2%
Annual Average	156,016	140,831	15,185	9.7%
1993				
January	155,390	140,622	14,768	9.5%
February	153,394	139,079	14,315	9.3%
March	155,149	141,837	13,312	8.6%
April	152,931	141,387	11,544	7.5%
May	153,941	142,316	11,625	7.6%
June	156,439	144,522	11,917	7.6%
July	153,516	141,748	11,768	7.7%
August	155,030	142,951	12,079	7.8%
September	153,156	140,486	12,670	8.3%
October	153,566	142,432	11,134	7.3%
November	152,697	142,034	10,663	7.0%
December	151,825	142,040	9,785	6.4%
Annual Average	153,920	141,788	12,132	7.9%

SOURCE: Massachusetts Department of Employment and Training,  
Local Area Unemployment Statistics (LAUS).

Revised 8/94



**MASSACHUSETTS LABOR FORCE DATA  
AND NATIONAL UNEMPLOYMENT RATE  
ANNUAL AVERAGES 1980-1993**  
(Numbers in Thousands)

	<u>Working Age Population</u>	<u>Labor Force</u>	<u>Employ- ment</u>	<u>Unemploy- ment</u>	<u>Unemployment Rate Mass.</u>	<u>U.S.</u>
1980	4,374	2,867	2,706	162	5.6%	7.1%
1981	4,418	2,947	2,760	187	6.4%	7.6%
1982	4,443	2,993	2,757	237	7.9%	9.7%
1983	4,472	2,977	2,772	205	6.9%	9.6%
1984	4,511	3,047	2,902	145	4.8%	7.5%
1985	4,534	3,051	2,931	120	3.9%	7.2%
1986	4,563	3,058	2,941	118	3.8%	7.0%
1987	4,587	3,086	2,987	99	3.2%	6.2%
1988	4,612	3,155	3,052	103	3.3%	5.5%
1989	4,618	3,180	3,053	127	4.0%	5.3%
1990	4,705	3,224	3,032	193	6.0%	5.5%
1991	4,681	3,166	2,882	284	9.0%	6.7%
1992	4,663	3,149	2,882	267	8.5%	7.4%
1993	4,663	3,170	2,953	217	6.9%	6.8%

SOURCE: Massachusetts Department of Employment and Training and The United States Department of Labor, Bureau of Labor Statistics, Current Population Survey.

NOTE: National figure excludes military.

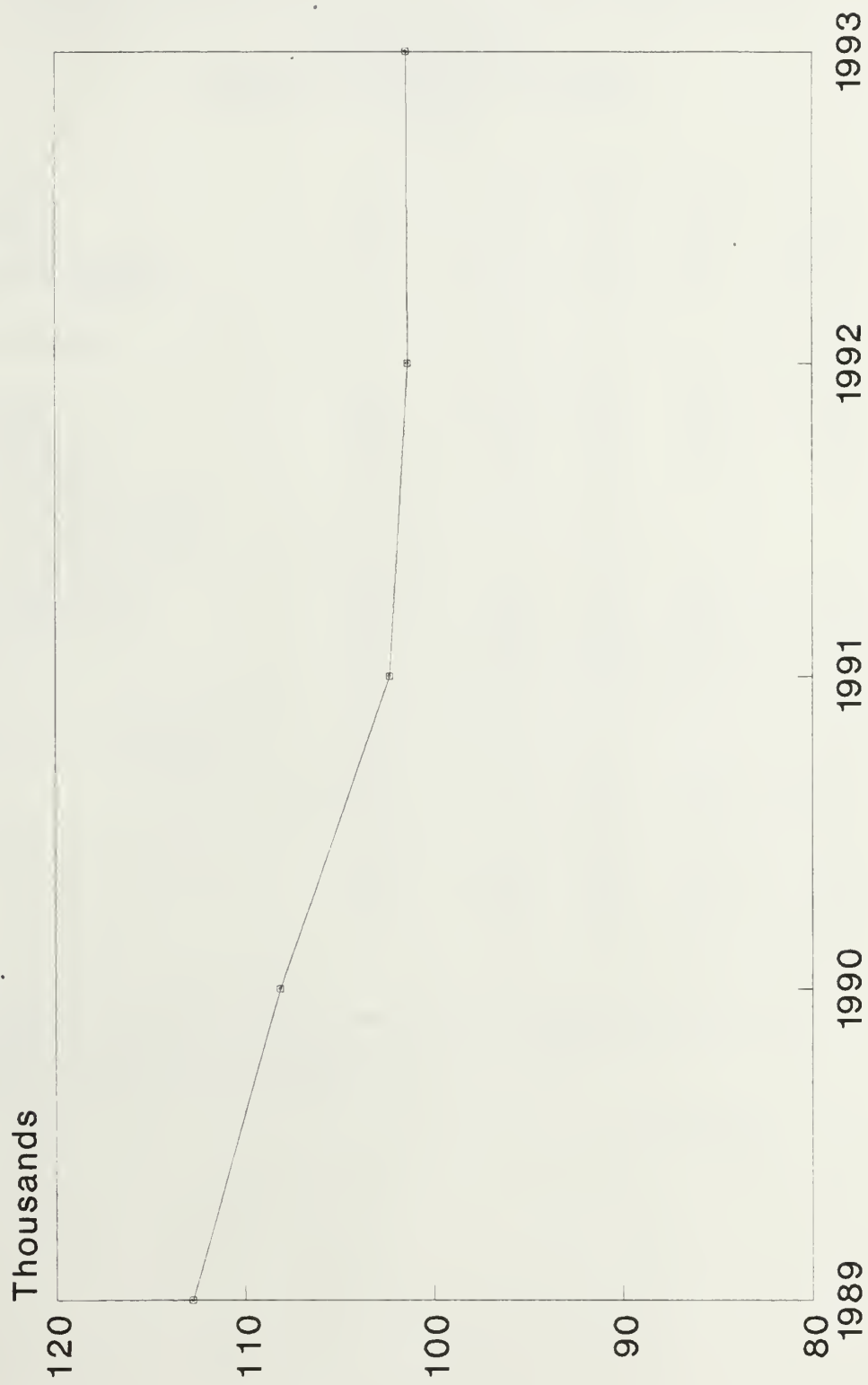




**NONAGRICULTURAL WAGE AND SALARY  
EMPLOYMENT  
ANNUAL AVERAGES  
THE LOWELL PMSA**



# NONAGRICULTURAL EMPLOYMENT LOWELL PMSA 1989-1993





**NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT**  
**LOWELL PMSA**  
**ANNUAL AVERAGES 1989–1993**  
(In Thousands)

<u>Industry</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Nonagricultural Employment	112.8	108.1	102.3	101.3	101.4
Construction & Mining	5.0	3.9	3.2	3.6	3.9
Manufacturing	39.6	37.3	35.3	33.5	31.5
Durable Goods	32.4	29.0	27.3	25.0	23.2
Nondurable Goods	7.3	8.3	8.0	8.5	8.2
Transportation & Public Utilities	4.6	5.2	4.9	4.9	5.1
Wholesale & Retail Trade	23.6	22.5	21.3	20.3	20.5
Wholesale Trade	4.4	4.5	4.3	4.3	4.7
Retail Trade	19.2	18.0	17.0	16.0	15.8
Finance, Insurance & Real Estate	3.8	3.7	3.4	3.3	3.4
Services	22.4	21.9	21.1	22.3	23.5
Government	13.8	13.6	13.1	13.5	13.6
State	3.0	3.0	2.9	3.1	3.1
Local	9.8	9.7	9.2	9.5	9.6

SOURCE: Massachusetts Department of Employment and Training, Current Employment Statistics Survey (CES-790).

NOTE: Numbers may not add to totals due to rounding.

Revised 8/94



**NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT  
LOWELL PMSA  
PERCENT DISTRIBUTION 1989–1993**

<u>Industry</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Nonagricultural Employment	100.0%	100.0%	100.0%	100.0%	100.0%
Construction & Mining	4.4%	3.6%	3.1%	3.6%	3.8%
Manufacturing	35.1%	34.5%	34.5%	33.1%	31.1%
Durable Goods	28.7%	26.8%	26.7%	24.7%	22.9%
Nondurable Goods	6.5%	7.7%	7.8%	8.4%	8.1%
Transportation & Public Utilities	4.1%	4.8%	4.8%	4.8%	5.0%
Wholesale & Retail Trade	20.9%	20.8%	20.8%	20.0%	20.2%
Wholesale Trade	3.9%	4.2%	4.2%	4.2%	4.6%
Retail Trade	17.0%	16.7%	16.6%	15.8%	15.6%
Finance, Insurance & Real Estate	3.4%	3.4%	3.3%	3.3%	3.4%
Services	19.9%	20.3%	20.6%	22.0%	23.2%
Government	12.2%	12.6%	12.8%	13.3%	13.4%
State	2.7%	2.8%	2.8%	3.1%	3.1%
Local	8.7%	9.0%	9.0%	9.4%	9.5%

SOURCE: Massachusetts Department of Employment and Training, Current Employment Statistics Survey (CES-790).

NOTE: Numbers may not add to totals due to rounding.

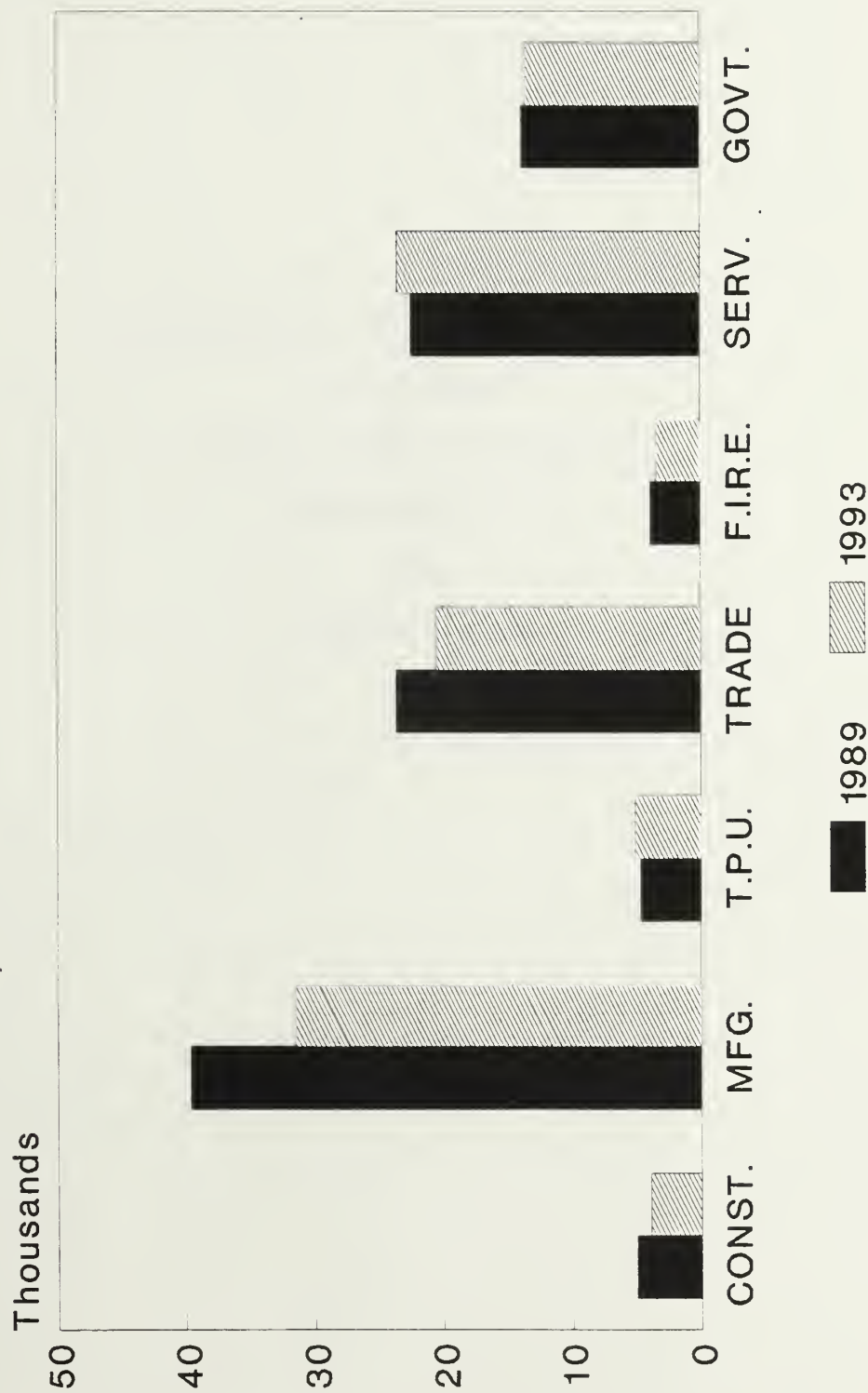
Revised 8/94





# EMPLOYMENT BY INDUSTRY DIVISION

## LOWELL PMSA 1989 & 1993





**NONAGRICULTURAL WAGE AND SALARY  
EMPLOYMENT  
MAJOR INDUSTRY DIVISIONS  
MASSACHUSETTS  
AND  
UNITED STATES**



**MASSACHUSETTS**  
**NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT**  
**ANNUAL AVERAGES 1980-1993**  
(In Thousands)

<u>Industry</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Nonagricultural Employment	2,654.3	2,671.8	2,642.0	2,696.5	2,855.8	2,930.0	2,988.8	3,065.8	3,130.8	3,108.6	2,984.8	2,821.2	2,795.1	2,841.5
Mining 1	—	—	1.1	1.0	1.2	1.5	1.6	1.6	1.7	1.6	1.4	1.2	1.2	1.2
Construction	77.4	79.6	78.4	82.6	96.4	109.4	123.2	137.7	142.1	126.8	101.1	78.8	73.6	80.9
Manufacturing	673.3	668.0	636.5	629.0	667.6	649.7	614.4	599.1	584.7	561.1	521.3	485.0	465.7	453.5
Durable Goods	435.7	435.2	414.4	409.2	443.5	436.0	409.1	398.0	388.1	372.1	342.7	317.0	299.6	286.4
Nondurable Goods	237.6	232.9	222.1	219.7	224.1	213.6	205.3	201.1	196.5	189.0	178.6	168.0	166.1	167.1
Transportation and Public Utilities	121.6	120.1	120.0	118.2	123.3	125.4	125.9	131.0	133.6	128.3	129.9	123.4	121.4	123.5
Wholesale & Retail Trade	576.6	581.3	579.2	612.7	659.0	684.1	709.7	723.4	739.4	740.5	700.1	650.6	640.5	644.0
Wholesale Trade	—	—	133.3	140.8	151.9	154.7	162.8	170.9	178.9	179.6	170.2	158.7	154.2	152.2
Retail Trade	—	—	445.9	471.9	507.3	529.4	546.9	552.5	560.5	560.9	529.8	492.0	486.3	491.8
Finance, Insurance and Real Estate	159.0	164.8	168.7	171.8	179.0	188.1	202.6	217.9	221.5	217.3	213.3	201.8	196.7	199.3
Services 1	634.0	663.5	683.5	705.8	754.0	786.5	818.4	853.9	896.6	924.1	915.7	890.5	913.5	951.8
Government	412.3	394.6	374.7	375.4	375.4	385.3	393.0	401.2	411.3	408.8	402.2	389.9	382.6	387.4
High Technology Mfg.	—	238.4	238.2	240.2	261.3	258.5	245.0	239.9	238.6	229.9	213.2	198.9	186.6	175.0
High Technology Nonmfg.	—	—	—	—	70.2	75.9	82.0	85.2	94.1	95.6	93.6	90.3	93.1	97.7

SOURCE: Massachusetts Department of Employment and Training, Current Employment Statistics Program (CES-790).

NOTE: Numbers may not add to totals due to rounding.

1. Services and mining were combined prior to 1982.

Revised 5/94



**MASSACHUSETTS**  
**NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT**  
**PERCENT DISTRIBUTION 1980-1993**

<u>Industry</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Nonagricultural Employment	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Mining 1	—	—	0.0%	0.0%	0.0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
Construction	2.9%	3.0%	3.0%	3.1%	3.4%	3.7%	4.1%	4.5%	4.5%	4.1%	3.4%	2.8%	2.6%	2.8%
Manufacturing	25.4%	25.0%	24.1%	23.3%	23.4%	22.2%	20.6%	19.5%	18.7%	18.0%	17.5%	17.2%	16.7%	16.0%
Durable Goods	16.4%	16.3%	15.7%	15.2%	15.5%	14.9%	13.7%	13.0%	12.4%	12.0%	11.5%	11.2%	10.7%	10.1%
Nondurable Goods	9.0%	8.7%	8.4%	8.1%	7.8%	7.3%	6.9%	6.6%	6.3%	6.1%	6.0%	6.0%	5.9%	5.9%
Transportation and Public Utilities	4.6%	4.5%	4.5%	4.4%	4.3%	4.3%	4.2%	4.3%	4.3%	4.1%	4.4%	4.4%	4.3%	4.3%
Wholesale & Retail Trade	21.7%	21.8%	21.9%	22.7%	23.1%	23.3%	23.7%	23.6%	23.6%	23.8%	23.5%	23.1%	22.9%	22.7%
Wholesale Trade	—	—	5.0%	5.2%	5.3%	5.3%	5.4%	5.6%	5.7%	5.8%	5.7%	5.6%	5.5%	5.4%
Retail Trade	—	—	16.9%	17.5%	17.8%	18.1%	18.3%	18.0%	17.9%	18.0%	17.7%	17.4%	17.4%	17.3%
Finance, Insurance and Real Estate	6.0%	6.2%	6.4%	6.4%	6.3%	6.4%	6.8%	7.1%	7.1%	7.0%	7.1%	7.2%	7.0%	7.0%
Services 1	23.9%	24.8%	25.9%	26.2%	26.4%	26.8%	27.4%	27.9%	28.6%	29.7%	30.7%	31.6%	32.7%	33.5%
Government	15.5%	14.8%	14.2%	13.9%	13.1%	13.2%	13.1%	13.1%	13.1%	13.2%	13.5%	13.8%	13.7%	13.6%

SOURCE: Massachusetts Department of Employment and Training, Current Employment Statistics Program (CES-790).

NOTE: Numbers may not add to totals due to rounding.

1. Services and mining were combined prior to 1982.

Revised 5/94





**NONAGRICULTURAL AND MANUFACTURING EMPLOYMENT  
MASSACHUSETTS AND MAJOR LABOR AREAS  
ANNUAL AVERAGES 1989 – 1993  
(In Thousands)**

	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Massachusetts – Total	3,108.6	2,984.8	2,821.2	2,795.1	2,841.5
Manufacturing	561.1	521.3	485.0	465.7	453.5
Boston, MA-NH PMSA – Total	1,892.2	1,824.6	1,719.0	1,706.0	1,728.6
Manufacturing	284.7	263.4	244.9	235.6	225.7
Springfield MSA – Total	262.5	253.1	237.7	236.9	236.4
Manufacturing	49.5	47.1	44.2	42.7	40.9
Worcester, MA-CT PMSA – Total	222.8	211.7	199.3	200.2	205.8
Manufacturing	49.1	45.0	41.9	40.7	39.4
Lawrence, MA-NH PMSA – Total	140.5	132.6	127.6	129.4	132.3
Manufacturing	42.3	39.6	37.4	36.6	34.8
Lowell, MA-NH PMSA – Total	112.8	108.1	102.3	101.3	101.4
Manufacturing	39.6	37.3	35.3	33.5	31.5
Brockton PMSA – Total	89.4	84.9	79.3	78.5	81.3
Manufacturing	12.4	11.8	11.2	11.1	10.9
New Bedford PMSA – Total	67.9	64.1	60.1	59.0	60.3
Manufacturing	18.1	16.2	15.2	15.0	15.5
Barnstable-Yarmouth MSA – Total	53.1	50.7	48.0	48.0	50.1
Manufacturing	3.2	2.5	2.2	1.9	2.0
Fitchburg-Leominster PMSA – Total	52.8	50.3	47.4	47.9	48.6
Manufacturing	15.9	14.6	13.8	14.3	14.5
Pittsfield MSA – Total	45.0	44.2	41.0	40.3	40.4
Manufacturing	11.5	10.3	8.7	8.3	7.8

SOURCE: Massachusetts Department of Employment and Training, Current Employment Statistics Program (CES-790).

NOTE: These are new MSAs/PMSAs as defined by U. S. Office of Management & Budget on June 30, 1993;  
they are not comparable to older MSAs/PMSAs.



**UNITED STATES**  
**NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT**  
**ANNUAL AVERAGES 1980-1993**

(In Thousands)

<u>Industry</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>
Nonagricultural Employment	90,406	91,152	89,544	90,152	94,408	97,387	99,344	101,958	105,210	107,895	109,419	108,256	108,604	110,525
Mining	1,027	1,139	1,128	952	966	927	777	717	713	692	709	689	635	611
Construction	4,346	4,188	3,904	3,946	4,380	4,668	4,810	4,958	5,098	5,171	5,120	4,650	4,492	4,642
Manufacturing	20,285	20,170	18,780	18,432	19,372	19,248	18,947	18,999	19,314	19,391	19,076	18,406	18,104	18,003
Durable Goods	12,159	12,082	11,014	10,707	11,476	11,458	11,195	11,154	11,363	11,394	11,109	10,569	10,277	10,172
Nondurable Goods	8,127	8,089	7,766	7,725	7,896	7,790	7,752	7,845	7,951	7,997	7,968	7,837	7,827	7,831
Transportation and Public Utilities	5,146	5,165	5,081	4,952	5,156	5,233	5,247	5,362	5,514	5,625	5,793	5,762	5,721	5,787
Wholesale Trade	5,292	5,375	5,295	5,283	5,568	5,727	5,761	5,848	6,030	6,187	6,173	6,081	5,997	5,958
Retail Trade	15,018	15,171	15,158	15,587	16,512	17,315	17,880	18,422	19,023	19,475	19,601	19,284	19,356	19,717
Finance, Insurance and Real Estate	5,160	5,298	5,340	5,466	5,684	5,948	6,273	6,533	6,630	6,668	6,709	6,646	6,602	6,712
Services	17,890	18,615	19,021	19,664	20,746	21,927	22,957	24,110	25,504	26,907	27,934	28,336	29,052	30,278
Government	16,241	16,031	15,837	15,869	16,024	16,394	16,693	17,010	17,386	17,779	18,304	18,402	18,645	18,817

SOURCE: U.S. Department of Labor, Bureau of Labor Statistics.

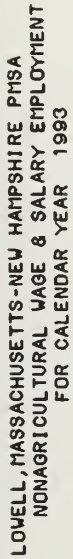
NOTE: Numbers may not add to totals due to rounding.

Revised 7/94



**DETAILED NONAGRICULTURAL WAGE AND SALARY  
EMPLOYMENT TABLES  
THE LOWELL PMSA**



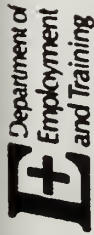


REVISÉ TO 1ST QTR 1993 BENCHMARK

S E R I E S C O D E	I N D U S T R Y												A V G.
	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	
NONAGRICULTURAL EMPLOYMENT	99.0	98.6	99.0	101.7	102.8	103.1	101.0	100.7	101.7	102.6	102.8	103.0	101.4
TOTAL PRIVATE	95.3	95.0	95.3	97.6	98.6	99.2	98.6	98.3	98.3	98.8	98.9	99.2	97.8
GOODS PRODUCING	35.2	34.9	34.9	35.7	36.0	36.0	35.6	35.3	35.2	35.2	35.2	35.0	35.3
SERVICE PRODUCING	63.8	63.9	64.1	66.0	66.8	67.1	65.4	65.4	66.5	67.5	67.6	68.0	66.0
PRIVATE SERVICE PRODUCING	50.1	50.1	50.4	52.1	52.8	53.2	53.0	53.0	53.1	53.7	53.7	54.2	52.5
CONSTRUCTION AND MINING	3.3	3.2	3.2	3.6	3.9	4.2	4.2	4.3	4.2	4.2	4.2	4.0	3.9
MANUFACTURING	31.9	31.7	31.7	32.1	32.1	31.8	31.4	31.0	31.0	30.9	31.0	31.0	31.5
DURABLE GOODS	23.7	23.5	23.4	23.9	23.9	23.5	23.2	22.9	22.9	22.7	22.7	22.6	23.2
NONDURABLE GOODS	8.2	6.2	6.3	6.2	6.2	6.3	6.2	6.1	6.1	6.2	6.3	6.4	6.2
TRANSPORTATION,PUBLIC UTILITIES	5.0	4.9	5.0	5.3	5.3	5.3	5.0	5.0	5.2	5.3	5.2	5.2	5.1
WHOLESALE & RETAIL TRADE	19.6	19.6	19.7	20.3	20.5	20.7	20.8	20.7	20.7	20.9	21.2	21.4	20.5
WHOLESALE TRADE	4.3	4.4	4.5	4.7	4.8	4.8	4.7	4.8	4.8	4.8	4.8	4.8	4.7
RETAIL TRADE	15.3	15.2	15.2	15.6	15.7	15.9	16.1	15.9	15.9	16.1	16.4	16.6	15.8
FINANCE, INSURANCE & REAL ESTATE	3.2	3.2	3.2	3.3	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.4	3.4
SERVICES	22.3	22.4	22.5	23.2	23.6	23.6	23.7	23.9	23.8	24.1	23.9	24.2	23.5
GOVERNMENT	13.7	13.6	13.7	13.9	14.0	13.9	12.4	12.4	13.4	13.8	13.9	13.8	13.6
STATE	3.1	3.2	3.2	3.2	3.2	3.1	3.1	3.0	3.0	3.0	3.0	3.0	3.1
LOCAL	9.7	9.6	9.7	10.0	10.1	10.0	8.5	8.5	9.5	9.9	10.0	10.0	9.6





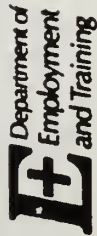


LOWELL, MASSACHUSETTS-NEW HAMPSHIRE PHSA  
NONAGRICULTURAL WAGE & SALARY EMPLOYMENT  
FOR CALENDAR YEAR 1992

REVISED TO 1ST QTR 1993 BENCHMARK

I N D U S T R Y	S E R I E S C O D E	J A N . F E B . M A R . A P R I L M A Y J U N E J U L Y A U G . S E P T . O C T . N O V . D E C . A V G .												
NONAGRICULTURAL EMPLOYMENT	000000	101.7	101.5	101.6	101.0	102.2	102.2	100.0	99.6	100.8	102.2	101.6	101.6	101.3
TOTAL PRIVATE	000015	88.1	87.7	87.7	87.3	88.3	88.4	87.8	87.4	87.8	88.4	87.8	87.8	87.9
GOODS PRODUCING	000045	37.9	37.5	37.5	37.5	37.7	37.7	37.3	36.9	36.8	36.8	36.3	35.8	37.1
SERVICE PRODUCING	000055	63.8	64.0	64.1	63.5	64.5	64.5	62.7	62.7	64.0	65.4	65.3	65.8	64.2
PRIVATE SERVICE PRODUCING	000075	50.2	50.2	50.2	49.8	50.6	50.7	50.5	50.5	51.0	51.6	51.5	52.0	50.7
CONSTRUCTION AND MINING	200015	3.0	2.9	2.9	3.3	3.6	3.8	4.0	4.0	4.1	4.1	4.1	3.8	3.6
MANUFACTURING	300001	34.9	34.6	34.6	34.2	34.1	33.9	33.3	32.9	32.7	32.7	32.2	32.0	33.5
DURABLE GOODS	300016	26.4	26.2	26.1	25.6	25.5	25.2	24.8	24.4	24.2	24.2	23.7	23.6	25.0
NONDURABLE GOODS	400016	8.5	8.4	8.5	8.6	8.6	8.7	8.5	8.5	8.5	8.5	8.5	8.4	8.5
TRANSPORTATION,PUBLIC UTILITIES	500001	4.7	4.9	4.8	4.8	4.8	4.8	4.7	4.6	4.9	5.1	5.1	5.3	4.9
WHOLESALE & RETAIL TRADE	600001	20.9	20.7	20.8	19.9	20.2	20.3	19.8	19.9	20.1	20.4	20.4	20.5	20.3
WHOLESALE TRADE	600016	4.5	4.5	4.6	4.3	4.3	4.3	4.2	4.2	4.2	4.3	4.2	4.1	4.3
RETAIL TRADE	600036	16.4	16.2	16.2	15.6	15.9	16.0	15.6	15.7	15.9	16.1	16.2	16.4	16.0
FINANCE, INSURANCE & REAL ESTATE	700001	3.3	3.3	3.1	3.2	3.2	3.3	3.3	3.3	3.3	3.2	3.2	3.3	3.3
SERVICES	800001	21.3	21.3	21.5	21.9	22.4	22.3	22.7	22.7	22.7	22.9	22.8	22.9	22.3
GOVERNMENT	900001	13.6	13.8	13.9	13.7	13.9	13.8	12.2	12.2	13.0	13.8	13.8	13.8	13.5
STATE	920001	3.1	3.1	3.1	3.1	3.1	3.0	2.9	2.9	3.0	3.2	3.2	3.1	3.1
LOCAL	930001	9.6	9.8	9.9	9.7	9.9	9.9	8.4	8.4	9.2	9.8	9.8	9.8	9.5



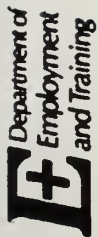


LOWELL, MASSACHUSETTS-NEW HAMPSHIRE PMSA  
NONAGRICULTURAL WAGE & SALARY EMPLOYMENT  
FOR CALENDAR YEAR 1991

REVISED TO 1ST QTR 1993 BENCHMARK

I N D U S T R Y	S E R I E S C O D E	J A N . F E B . M A R . A P R I L M A Y J U N E J U L Y A U G . S E P T . O C T . N O V . D E C . A V G .											
NONAGRICULTURAL EMPLOYMENT	000000	104.8	103.8	103.4	103.1	103.7	103.8	100.0	100.2	100.4	101.2	101.4	101.2
TOTAL PRIVATE	000015	91.3	90.1	89.9	89.7	90.1	90.3	88.2	88.5	88.1	88.1	88.1	88.0
GOODS PRODUCING	000045	39.9	39.3	39.1	39.0	38.8	38.9	38.5	38.7	37.8	37.6	37.4	37.1
SERVICE PRODUCING	000055	64.9	64.5	64.3	64.1	64.9	64.9	61.5	61.5	62.6	63.6	64.0	64.1
PRIVATE SERVICE PRODUCING	000075	51.4	50.8	50.8	50.7	51.3	51.4	49.7	49.8	50.3	50.5	50.7	50.9
CONSTRUCTION AND MINING	200015	2.9	2.7	2.7	3.0	3.2	3.3	3.4	3.6	3.4	3.3	3.3	3.2
MANUFACTURING	300001	37.0	36.6	36.4	36.0	35.6	35.6	35.1	35.1	34.4	34.3	34.1	33.9
DURABLE GOODS	300016	28.9	28.5	28.4	28.0	27.5	27.5	27.5	27.3	26.5	26.2	25.9	25.7
NONDURABLE GOODS	400016	8.1	8.1	8.0	8.0	8.1	8.1	7.6	7.8	7.9	8.1	8.2	8.2
TRANSPORTATION, PUBLIC UTILITIES	500001	5.6	5.2	4.9	4.8	4.8	4.7	4.4	4.5	4.8	4.9	5.0	5.1
WHOLESALE & RETAIL TRADE	600001	21.6	21.4	21.3	21.4	21.7	21.8	21.0	20.9	21.0	21.0	21.4	21.3
WHOLESALE TRADE	600016	4.4	4.3	4.3	4.2	4.3	4.4	4.2	4.3	4.2	4.3	4.3	4.3
RETAIL TRADE	600036	17.2	17.1	17.0	17.2	17.4	17.4	16.8	16.6	16.8	16.7	17.1	17.0
FINANCE, INSURANCE & REAL ESTATE	700001	3.5	3.5	3.5	3.4	3.4	3.4	3.3	3.3	3.3	3.2	3.2	3.2
SERVICES	800001	20.7	20.7	21.1	21.1	21.4	21.5	21.0	21.1	21.2	21.4	21.1	21.3
GOVERNMENT	900001	13.5	13.7	13.5	13.4	13.6	13.5	11.8	11.7	12.3	13.1	13.3	13.2
STATE	920001	3.0	3.0	3.0	3.0	3.0	2.9	2.8	2.7	2.8	3.0	3.0	3.0
LOCAL	930001	9.6	9.8	9.6	9.5	9.7	9.7	8.1	8.1	8.6	9.2	9.4	9.3



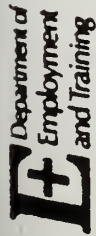


LOWELL, MASSACHUSETTS-NEW HAMPSHIRE PMSA  
NONAGRICULTURAL WAGE & SALARY EMPLOYMENT  
FOR CALENDAR YEAR 1990

REVISED TO 1ST QTR 1993 BENCHMARK

I N D U S T R Y		SERIES CODE	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	AVG.
NONAGRICULTURAL EMPLOYMENT		000000	109.6	109.3	109.3	109.1	109.0	109.1	106.4	106.3	109.9	107.7	107.5	107.6	108.1
TOTAL PRIVATE		000015	96.0	93.9	94.2	94.1	95.0	95.5	94.6	94.7	95.3	93.9	93.6	93.6	94.5
GOODS PRODUCING		000045	42.4	40.9	40.6	41.0	41.1	41.4	41.4	41.6	41.3	40.9	40.9	40.9	41.2
SERVICE PRODUCING		000055	67.2	67.5	67.7	67.1	67.9	67.7	65.0	64.7	68.5	66.9	66.7	66.7	67.0
PRIVATE SERVICE PRODUCING		000075	53.6	53.1	53.6	53.1	53.9	54.1	53.2	53.1	54.0	53.1	52.9	52.7	53.4
CONSTRUCTION AND MINING		200015	3.7	3.6	3.5	3.9	4.1	4.2	4.1	4.2	4.1	4.0	3.8	3.6	3.9
MANUFACTURING		300001	39.7	37.2	37.1	37.1	37.0	37.2	37.3	37.4	37.2	36.9	37.0	37.3	37.3
DURABLE GOODS		300016	30.2	28.9	28.9	28.9	28.9	28.9	29.1	29.0	28.7	28.6	28.7	28.9	29.0
NONDURABLE GOODS		400016	8.5	8.3	8.3	8.2	8.2	8.3	8.2	8.4	8.5	8.2	8.3	8.4	8.3
TRANSPORTATION,PUBLIC UTILITIES		500001	5.2	5.2	5.2	5.1	5.1	5.1	4.9	5.1	5.7	5.5	5.4	5.2	5.2
WHOLESALE & RETAIL TRADE		600001	23.0	22.7	22.8	22.4	22.7	23.0	22.4	22.2	22.5	22.1	22.2	22.3	22.5
WHOLESALE TRADE		600016	4.7	4.7	4.6	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.4	4.5
RETAIL TRADE		600036	18.3	18.0	18.2	17.9	18.2	18.5	17.9	17.7	18.0	17.6	17.7	17.9	18.0
FINANCE, INSURANCE & REAL ESTATE		700001	3.9	3.9	3.9	3.9	3.9	3.9	3.7	3.7	3.7	3.6	3.6	3.5	3.7
SERVICES		800001	21.5	21.3	21.7	21.8	22.3	22.2	22.3	22.1	22.1	21.9	21.6	21.7	21.9
GOVERNMENT		900001	13.6	14.4	14.1	14.0	14.0	13.6	11.8	11.6	14.5	13.9	13.9	14.0	13.6
STATE		920001	3.1	3.1	3.1	3.1	3.0	2.9	2.9	2.7	2.9	3.0	3.0	3.0	3.0
LOCAL		930001	9.6	10.4	10.1	10.0	10.0	9.7	8.1	8.0	10.9	9.9	10.0	10.1	9.7





LOWELL, MASSACHUSETTS-NEW HAMPSHIRE PMSA  
NONAGRICULTURAL WAGE & SALARY EMPLOYMENT  
FOR CALENDAR YEAR 1989

REVISED TO 1ST QTR 1993 BENCHMARK

I N D U S T R Y	S E R I E S C O D E	J A N . F E B . M A R . A P R I L M A Y J U N E J U L Y A U G . S E P T . O C T . N O V . D E C . A V G .											
NONAGRICULTURAL EMPLOYMENT	000000	114.9	115.0	115.0	115.0	116.1	111.3	110.6	110.9	110.5	109.7	109.8	112.8
TOTAL PRIVATE	000015	100.9	100.8	100.9	100.4	101.7	98.7	98.1	97.9	96.8	95.8	96.0	99.1
GOODS PRODUCING	000045	46.4	46.0	45.8	45.9	45.9	44.9	44.5	43.9	43.2	41.8	41.3	44.6
SERVICE PRODUCING	000055	68.5	69.0	69.2	69.1	70.2	66.4	66.1	67.0	67.3	67.9	68.5	68.2
PRIVATE SERVICE PRODUCING	000075	54.5	54.8	55.1	54.5	55.8	53.8	53.6	54.0	53.6	54.0	54.7	54.4
CONSTRUCTION AND MINING	200015	4.9	4.7	4.8	5.1	5.5	5.3	5.2	5.1	4.8	4.6	4.4	5.0
MANUFACTURING	300001	41.5	41.3	41.0	40.8	40.4	39.6	39.3	38.8	38.4	37.2	36.9	39.6
DURABLE GOODS	300016	33.9	33.6	33.4	33.3	33.0	32.5	32.1	31.7	31.4	30.3	30.0	32.4
NONDURABLE GOODS	400016	7.6	7.7	7.6	7.5	7.4	7.1	7.2	7.1	7.0	6.9	6.9	7.3
TRANSPORTATION, PUBLIC UTILITIES	500001	4.9	5.0	5.1	4.7	4.8	4.2	4.0	4.3	4.5	4.5	5.0	4.6
WHOLESALE & RETAIL TRADE	600001	23.8	23.6	23.6	23.6	24.3	23.4	23.4	23.4	23.2	23.3	23.6	23.6
WHOLESALE TRADE	600016	4.3	4.4	4.3	4.3	4.4	4.4	4.5	4.5	4.4	4.3	4.3	4.4
RETAIL TRADE	600036	19.5	19.2	19.3	19.3	19.9	19.0	18.9	18.9	18.8	19.0	19.3	19.2
FINANCE, INSURANCE & REAL ESTATE	700001	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.7	3.8	3.7	3.8
SERVICES	800001	21.9	22.3	22.5	22.4	22.9	22.4	22.4	22.5	22.2	22.4	22.4	22.4
GOVERNMENT	900001	14.0	14.2	14.1	14.6	14.4	12.6	12.5	13.0	13.7	13.9	13.8	13.8
STATE	920001	3.1	3.2	3.1	3.1	3.0	2.8	2.8	2.9	3.1	3.1	3.0	3.0
LOCAL	930001	9.9	10.2	10.1	10.6	10.5	8.8	8.8	9.1	9.7	9.9	9.9	9.8

1] Labor Dispute

2] Labor Dispute Over







